

Message Text

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ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-11 INR-10 NSAE-00 RSC-01

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DRAFTED BY COMMERCE/OEC:MKRAVETZ:MAR

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EXCON

EO 11652: XGDS-1

TAGS: ESTC, COCOM, US, HU

SUBJ: US OSCILLOSCOPE PROBES TO HUNGARY - IL 1584

REFS: A. COCOM DOC(73)956

B. OECD PARIS 18356

END USER UNDOUBTEDLY HAS MANY OSCILLOSCOPES ON HAND WHICH WOULD BE USEABLE WITH THESE PROBES. IF ACCURATE MEASUREMENTS ARE REQUIRED, WE WOULD EXPECT THAT THE SCOPE WOULD BE A NON-IL TYPE. THE COCOM SUBMISSION IS IN ERROR IN CALLING THE P6054 A 275 MHZ PROBE. IT HAS A NOMINAL BANDWIDTH OF 500 MHZ (0.7 NANOSECOND RISE TIME) AND IS RECOMMENDED BY THE MANUFACTURER FOR USE AT BANDWIDTHS OF 250 MHZ OR LESS. WE DO NOT THINK 500 MHZ (OR 250 MHZ) IS REQUIRED FOR NMR PER SE. HOWEVER, THE P6054 IS APPROPRIATE FOR USE WITH NON-IL SCOPES WITH BANDWIDTHS OF 75 MHZ OR LESS IN ORDER TO MAKE ACCURATE MEASUREMENTS OF PULSE

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PARAMETERS SUCH AS ENERGY, DURATION, OR DELAY IN PULSED NMR

SYSTEMS OF A SOPHISTICATED TYPE. AS WE HAVE NOTED MANY
TIMES, FOR ACCURATE MEASUREMENTS THE PROBE MUST HAVE A MUCH
WIDER BANDWIDTH THAN THE SCOPE AND BOTH MUST HAVE A WIDER
BANDWIDTH THAN THE SIGNAL BEING MEASURED. RU;H

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